Randy L. Hoffman, et al.

Inventor(s):

PATENT APPLICATION

ATTORNEY DOCKET NO. 200316547-1

Confirmation No.:

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application N	lo.:	Examiner:
Filing Date:	Herewith	Group Art Unit:
Title:	SEMICONDUCTOR DEVICE	
Commissione PO Box 1450 Alexandria, V		
Sir:	,	
This Infor	mation Disclosure Statement is submitted:	
(Inder 37 CFR 1.97(b), or Within three months of filing national application; or date of entry of na nailing date of first office action on the merits; whichever occurs last)	tional application; or before
(nder 37 CFR 1.97(c) together with either a:) Statement under 37 CFR 1.97(e), or) a \$180.00 fee under 37 CFR 1.17(p), or After the CFR 1.97 (b) time period, but before final action or notice of allow	rance, whichever occurs first)
(Inder 37 CFR 1.97 (d) together with a: Statement under 37 CFR 1.97(e)(1) or (2), and a \$180.00 fee set forth in 37 CFR 1.17(p). (Filed after final action, a notice of allowance, on or before payment of the contraction.) 	the issue fee)
pendency of	narge to Deposit Account 08-2025 the sum of \$0.00 this application, please charge any fees required or credi 2025 pursuant to 37 CFR 1.25.	
any required applicant(s) b	cant(s) submit herewith Form PTO 1449 - Information Discicopies of patents, publications or other information of which believe(s) may be material to the examination of this applications in accordance with 37 CFR 1.56.	n applicant(s) are aware, which

() A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

"Express Mail" label no. EV372029228US

Date of Deposit 03/12/2004

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, Alexandria, VA 22313-1450.

By Sarah Spinland

Typed Name: Sarah L. Reinhard

Respectfully submitted,

Randy L. Hoffman, et/al

Edward J. Brooks III

Attorney/Agent for Applicant(s)

Reg. No. 40, 925

Date: 03/12/2004

Telephone No.: (612) 659-9340

Sheet 1 of 6

					ATTY, DOCKET NO.	Т	APPLICATION I	NO LOCALEIDAGE	
FC	ORM I	PTO-1449			200316547-1		AFFEICATION	NO. CONFIRMA	IION r
LI	ST OI	PATENTS AND PL	JBLICATIONS FOR		APPLICANT				
A	PPLIC	ANT'S INFORMATI STATE			Randy L. Hoffmar	n. et a	l.		
					FILING DATE		GROUP		· · · ·
	((Jse several sheets i	if necessary)		Herewith				
EFERE	NCE	DESIGNATION	U.S. P	ATEN	T DOCUMENTS				
AMINER		DOCUMENT NUMBER	PUBLICATION DATE		NAME	ı		mns, Lines Wher ges or Figures Ap	
	1A	5,744,864	08/28/1998	Cill	lessen, et al.				
		2003/0047785	03/13/2003	Kav	wasaki, et al.				
	-	2003/0111663	06/19/2003	Ya					
		2003/0218221	11/27/2003	_	ager, III, et al.			<u></u>	
	<u> </u>	2003/0218222	11/27/2003		ager, III, et al.				
	1-	60/490,239	07/25/2003	-				hin Film Transis	
	1G		01/23/2004		1700			Oxide Channel	
· · · · · ·	1H	10/763,353	01/23/2004	 		Ţ		uding a Deposit	ed
	11	10,700,004	3.723/2004	\dashv			nannel Regio	n Having A	
	1 .			-					
	1 1								
	1J 1K			-					
	-		FO	REIGN	PATENT DOCUM	IENTS			
	-	DOCUMENT NUMBER	PUBLICATION DATE	I	I PATENT DOCUM AME OF PATENTEE OR APPLICANT	F	ages/Columns/ vant Passages/	Lines Where Figures Appear	Transla
	-		PUBLICATION	N.	AME OF PATENTEE	F			Transla
	1K	NUMBER WO 97/06544	PUBLICATION DATE	N. Cilless	AME OF PATENTEE OR APPLICANT	F			Transla attacl
	1K	NUMBER WO 97/06544	PUBLICATION DATE	N. Cilless	AME OF PATENTEE OR APPLICANT sen, et al.	F			Transla attacl
	1K 1L 1M	NUMBER WO 97/06544	PUBLICATION DATE	N. Cilless	AME OF PATENTEE OR APPLICANT sen, et al.	F			Transla attach
	1 L 1 M 1 N	NUMBER WO 97/06544	PUBLICATION DATE	N. Cilless	AME OF PATENTEE OR APPLICANT sen, et al.	F			Transla attacl
	1L 1M 1N	NUMBER WO 97/06544 EP1134811	PUBLICATION DATE 02/20/1997 09/19/2001	Cilless Kawas	AME OF PATENTEE OR APPLICANT sen, et al.	FRele	vant Passages/	Figures Appear	Transla attach
	1K 1L 1M 1N 10	NUMBER WO 97/06544 EP1134811 OTHER REF	PUBLICATION DATE 02/20/1997 09/19/2001 ERENCES (includ	Cilless Kawas	AME OF PATENTEE OR APPLICANT sen, et al. saki, et al.	Pertine	vant Passages/	(Figures Appear	
	1L 1M 1N	NUMBER WO 97/06544 EP1134811 OTHER REF	PUBLICATION DATE 02/20/1997 09/19/2001 ERENCES (includ	Cilless Kawas	AME OF PATENTEE OR APPLICANT sen, et al. saki, et al.	Pertine	vant Passages/	(Figures Appear	Transia attaci
	1K 1L 1M 1N 10	NUMBER WO 97/06544 EP1134811 OTHER REF	PUBLICATION DATE 02/20/1997 09/19/2001 ERENCES (includ	Cilless Kawas	AME OF PATENTEE OR APPLICANT sen, et al. saki, et al.	Pertine	vant Passages/	(Figures Appear	Transla attacl
	1K 1L 1M 1N 10	NUMBER WO 97/06544 EP1134811 OTHER REF	PUBLICATION DATE 02/20/1997 09/19/2001 ERENCES (includ	Cilless Kawas	AME OF PATENTEE OR APPLICANT sen, et al. saki, et al.	Pertine	vant Passages/	(Figures Appear	Transla attacl
	1K 1L 1M 1N 10	NUMBER WO 97/06544 EP1134811 OTHER REF Aoki, Akira, e	PUBLICATION DATE 02/20/1997 09/19/2001 ERENCES (include the staller, "Transparent the staller and s	Cilless Kawas ing Au nin Film	AME OF PATENTEE OR APPLICANT sen, et al. saki, et al. thor, Title, Date, P	Pertine Discovery control of the second sec	nt Pages, et	C.) 9, p.582 (197	Transla attacl
	1 L 1 M 1 O 1 P	NUMBER WO 97/06544 EP1134811 OTHER REF Aoki, Akira, e	PUBLICATION DATE 02/20/1997 09/19/2001 ERENCES (include the staller, "Transparent the staller and s	Cilless Kawas ing Au nin Film	AME OF PATENTEE OR APPLICANT sen, et al. saki, et al. uthor, Title, Date, P	Pertine Discovery control of the second sec	nt Pages, et	C.) 9, p.582 (197	Transla attacl
	1 L 1 M 1 O 1 P	NUMBER WO 97/06544 EP1134811 OTHER REF Aoki, Akira, e	PUBLICATION DATE 02/20/1997 09/19/2001 ERENCES (include the staller, "Transparent the staller and s	Cilless Kawas ing Au nin Film	AME OF PATENTEE OR APPLICANT sen, et al. saki, et al. thor, Title, Date, P	Pertine Discovery control of the second sec	nt Pages, et	C.) 9, p.582 (197	Transla attacl
	1 L 1 M 1 O 1 P	NUMBER WO 97/06544 EP1134811 OTHER REF Aoki, Akira, e Carcia, P.F., e Applied Physic	PUBLICATION DATE 02/20/1997 09/19/2001 ERENCES (include the stalled of the sta	ing Au in Film	AME OF PATENTEE OR APPLICANT sen, et al. saki, et al. thor, Title, Date, P	Pertine J. App	nt Pages, et	c.) 9, p.582 (197	Transla attacl
	1 L 1 M 1 N 1 O 1 P	NUMBER WO 97/06544 EP1134811 OTHER REF Aoki, Akira, e Carcia, P.F., e Applied Physic	PUBLICATION DATE 02/20/1997 09/19/2001 ERENCES (include the stalled of the sta	ing Au in Film	AME OF PATENTEE OR APPLICANT sen, et al. saki, et al. athor, Title, Date, Paranthem transistors, Japan hin-film transistor fab, pp. 1117-1119 (Felensistors for Flexible E	Pertine J. App	nt Pages, et	c.) 9, p.582 (197	Translattac E
	1 L 1 M 1 N 1 O 1 P	NUMBER WO 97/06544 EP1134811 OTHER REF Aoki, Akira, e Carcia, P.F., e Applied Physic	PUBLICATION DATE 02/20/1997 09/19/2001 ERENCES (include the stalled of the sta	ing Au in Film	AME OF PATENTEE OR APPLICANT sen, et al. saki, et al. athor, Title, Date, Paranthem transistors, Japan hin-film transistor fab, pp. 1117-1119 (Felensistors for Flexible E	Pertine J. App	nt Pages, et	c.) 9, p.582 (197	Transla attack
EXAM	1 L 1 M 1 N 1 O 1 P 1 C	NUMBER WO 97/06544 EP1134811 OTHER REF Aoki, Akira, e Carcia, P.F., e Applied Physic	PUBLICATION DATE 02/20/1997 09/19/2001 ERENCES (include the stalled of the sta	ing Au in Film	AME OF PATENTEE OR APPLICANT sen, et al. saki, et al. athor, Title, Date, Paranthem transistors, Japan hin-film transistor fab, pp. 1117-1119 (Felensistors for Flexible E	Pertine Dicatecebruary	nt Pages, et	c.) 9, p.582 (197	Transla attack

Sheet 2 of 6

ru.	RM PT	O-14 4 9		ATTY. DOCKET NO.	APPLICATION NO. CONFIRMAT	ION NO
			DI ICATIONIC EOD	200316547-1		
		PATENTS AND PUI NT'S INFORMATIO	N DISCLOSURE	APPLICANT	an at al	
		STATEN	IENT	Randy L. Hoffma	GROUP	_
	(Us	e several sheets if	necessary)	Herewith		
EFERER	VCE D	ESIGNATION	U.S. PA	TENT DOCUMENTS		
AMINER NITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appe	ar
	2A					
	2B					
	2C					
	2D					
	2E					
	2F					
	2G					
	2H					_
	21		•			
	2J					
	2K					
	2L	DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Translati attache
	2M					
	 					
	2N					
	2N 20					
	20	OTHER REFE	RENCES (includin	ng Author, Title, Date,	Pertinent Pages, etc.)	
	20	T			Pertinent Pages, etc.) etal Oxides", SPIE Vol. 2697, pp.	
	20 2P	Fu, Shelton, et 520-527.	al., "MOS and MO	SFET with Transistion M		
	20 2P	Fu, Shelton, et 520-527. Giesbers, J.B., Microeletronic Grosse-Holz, K	et al., "Dry Etching Engineering, Vol. 3	SFET with Transistion M of All-Oxide Transparer p, pp. 71-74 (1997).	etal Oxides", SPIE Vol. 2697, pp.	oc.

Rev 10/03 (PTO1449)

Sheet 3 of 6

FORN	7 PTO-1449			ATTY. DOCKET NO. 200316547-1		APPLICATION NO.	CONFIRMATION	I NO
LIST	OF PATENTS AND	PUBLICATIONS FOR		APPLICANT	1		1	
	ICANT'S INFORMA	TION DISCLOSURE		Randy L. Hoffmar	n eta	al		
	SIAI	TEMENT		FILING DATE	, στ τ	GROUP		
	(Use several sheets	if necessary)		Herewith				
EFERENC	E DESIGNATION	U.S. PA	ATENI	r documents				
AMINER NITIAL	DOCUMENT NUMBER	PUBLICATION DATE		NAME		Pages, Columns Relevant Passages		
3.4	\							
3E	3		-					
30								
30	D							
36	=		1					
3F	=							
30	3						-	
31	-1							
. 31								
3.	J							
	7							
38		FOF		PATENT DOCUM		Pages/Columns/Line	es Where _{Tran}	
31	DOCUMENT NUMBER						es Where Tran	slatio
31	DOCUMENT NUMBER	PUBLICATION		AME OF PATENTEE		Pages/Columns/Line	es Where Tran	islati
31	DOCUMENT NUMBER L M	PUBLICATION		AME OF PATENTEE		Pages/Columns/Line	es Where Tran	islati
31 31 31 31	DOCUMENT NUMBER L M	PUBLICATION		AME OF PATENTEE		Pages/Columns/Line	es Where Tran	slatio
31	DOCUMENT NUMBER L M N O	PUBLICATION DATE	N	AME OF PATENTEE OR APPLICANT	Rel	Pages/Columns/Line evant Passages/Figu	es Where Tran	slatio
31 31 31 31	DOCUMENT NUMBER M N O P OTHER RE	PUBLICATION DATE	N/	AME OF PATENTEE OR APPLICANT thor, Title, Date, F	Rel	Pages/Columns/Line evant Passages/Figu ent Pages, etc.)	es Where Tran att.	eck if
31 31 31 31	DOCUMENT NUMBER M N O P OTHER RE	PUBLICATION DATE	ng Au	AME OF PATENTEE OR APPLICANT thor, Title, Date, F	Rel	Pages/Columns/Line evant Passages/Figu ent Pages, etc.)	es Where Tran att.	slatio
31 31 31 31	DOCUMENT NUMBER L M N O P OTHER RE 30 Hoffman, R.I 82, No. 5, p	PUBLICATION DATE FERENCES (including L., et al., "ZnO-based p. 733-735 (February coshi, et al., "Transpactrical properties", Jo	ng Au	thor, Title, Date, For parent thin-film transpositions of the parent thin-film transpositions using film transpositions are the parent than transpositions.	Pertine sistors	Pages/Columns/Line evant Passages/Figure ent Pages, etc.) ", Applied Physicano	s Where transcription att.	slatio
31 31 31	DOCUMENT NUMBER M N O P OTHER RE 30 Hoffman, R.I 82, No. 5, p 3R Masuda, Sat and their ele (February 1,	PUBLICATION DATE FERENCES (including L., et al., "ZnO-based p. 733-735 (February coshi, et al., "Transpactrical properties", Jo	ng Au I transport the curnel of the curnel o	thor, Title, Date, For a parent thin-film transport of Applied Physics, Film Transistors with the parent than the parent thin-film transport than the parent thin-film transport than the parent thin-film transport than transport to the parent thin-film transport than the parent than the	Pertine sistors vol. 9	Pages/Columns/Line evant Passages/Figure ent Pages, etc.) ", Applied Physicano as an active columns, No. 3, pp. 162	s Letters, Vol.	slatio
31 31 31	DOCUMENT NUMBER M N O P OTHER RE 30 Hoffman, R.I 82, No. 5, p 3R Masuda, Sat and their ele (February 1,	PUBLICATION DATE FERENCES (including the content of the content o	ng Au I transport the curnel of the curnel o	thor, Title, Date, For a parent thin-film transport of Applied Physics, Film Transistors with the parent than the parent thin-film transport than the parent thin-film transport than the parent thin-film transport than transport to the parent thin-film transport than the parent than the	Pertine sistors vol. 9	Pages/Columns/Line evant Passages/Figure ent Pages, etc.) ", Applied Physicano as an active columns, No. 3, pp. 162	s Letters, Vol.	islatio

Rev 10/03 (PTO1449)

Sheet 4 of 6

				ATTY. DOCKET NO.	L	APPLICATION	ON NO.	I CONFIRM	
FORM P	TO-1449			200316547-1	l				
	PATENTS AND PU			APPLICANT			***		
APPLICA	STATE			Randy L. Hoffman	ı, et a	al.			
(U	se several sheets if	necessary)		FILING DATE Herewith		GROUP			
	2501011471011				1				
	DESIGNATION		AIENI	T DOCUMENTS	—т				
AMINER NITIAL	DOCUMENT NUMBER	PUBLICATION DATE		NAME				s, Lines Wh or Figures A	
4A		···							
4B				<u>,</u>					
4C									
4D									
4E									
4F		<u></u>							
4G		,							
4H			_						
41				WW					
4J									
4K									
		FOI	REIGN	PATENT DOCUME	ENTS		-		· · ·
	DOCUMENT NUMBER	PUBLICATION DATE		AME OF PATENTEE OR APPLICANT		Pages/Colun evant Passa	mns/Line iges/Figi	es Where ures Appear	Che Trans atta
4L		PUBLICATION		AME OF PATENTEE		Pages/Colun evant Passa	mns/Line iges/Figi	es Where ures Appear	Trans
4M		PUBLICATION		AME OF PATENTEE		Pages/Colun evant Passa	mns/Line	es Where ures Appear	Trans
4M 4N		PUBLICATION DATE		AME OF PATENTEE		Pages/Colun evant Passa	nns/Line iges/Figu	es Where ures Appear	Trans
4M		PUBLICATION DATE		AME OF PATENTEE		Pages/Colun evant Passa	mns/Line ges/Figu	es Where ures Appear	Trans
4M 4N 4O	NUMBER	PUBLICATION DATE	N	AME OF PATENTEE	Relo	evant Passa	iges/Figu	ures Appear	Trans
4M 4N 4O	OTHER REFE	PUBLICATION DATE . RENCES (including et al., "Thin Film 1	ng Au	AME OF PATENTEE OR APPLICANT	Rele	ent Pages	, etc.)	ures Appear	Trans
4M 4N 4O 4P	OTHER REFE Ohya, Yutaka, Jpn. J. Appl. F	PUBLICATION DATE RENCES (including et al., "Thin Film Thys., Vol. 40, Particular et al., "SrTIO3-ba	ng Au Transisi 11, No	thor, Title, Date, P	ertine d by C	ent Pages Chemical So, 2001).	, etc.)	Deposition	Transatta
4M 4N 4O 4P	OTHER REFE Ohya, Yutaka, Jpn. J. Appl. F Pallecchi, Ilaria Physics Letters	PUBLICATION DATE RENCES (including et al., "Thin Film Thys., Vol. 40, Part et al., "SrTIO3-bas, Vol. 78, No. 15,	ng Au Transist 1, No	thor, Title, Date, Potential of the pote	ertined by Conuary	ent Pages Chemical So, 2001).	, etc.)	Deposition	Transatta

Sheet 5 of 6

FO	RM PT	O-1449			ATTY. DOCKET NO.		APPLICATION NO.	CONFIRMATION	NO
					200316547-1				
		PATENTS AND PU NT'S INFORMATIO			APPLICANT				
		STATE	MENT		Randy L. Hoffman		al. GROUP		
	(Us	e several sheets if	necessary)		Herewith				
REFEREN	ICE D	DESIGNATION	U.S. P	ATEN	T DOCUMENTS				
XAMINER		DOCUMENT	PUBLICATION				Pages, Columns		
INITIAL		NUMBER	DATE		NAME		Relevant Passages	or Figures Appear	
	5A								
	5B								
	5C								
	5D								
	5E								
	5F		* * *						
	5G					·			
	5H		·						
	51								
	5J								
	5K								
		DOCUMENT NUMBER	PUBLICATION DATE		AME OF PATENTEE OR APPLICANT		Pages/Columns/Line evant Passages/Figu	s Where Tran	ck in slatio
	5L								
	5M							·	_
-	5N								
	50								_
	5P								_
		OTHER REFE	RENCES (includ	ing Au	thor, Title, Date, P	ertine	ent Pages, etc.)		_
	50	Seager, C.H., 6 Lett., Vol. 68,	et al., "Charge Tra No. 19, pp. 2660	pping a 0-2662	and device behavior in (May 6, 1996).	n ferro	pelectric memorie	s", Appl. Phys.	
	5R	Uneno, K., et a Physics Letters	ıl. "Field-effect tra , Vol. 83, No. 9,	nsistor pp. 179	on SrTiO3 with sput 55-1757 (September	ttered 1, 20	Al2O3 gate insul	ator", Applied	
	58	channel, a poss	sible new gas sen:	sor dev	ted gate thin-film tranice" The 11th Europe 21-24, 1997).	nsistor ean Co	using SnO2 as s onference on Soli	emiconducting d State	
		Transducers, p	р. 47 1-474 (Зерк						

Sheet 6 of 6

	PTO-1449			ATTY. DOCKET NO.		APPLICATION NO.	CONFIRMAT	ION NC
	F PATENTS AND PU	DI ICATIONS EOD		200316547-1			<u> </u>	
	ANT'S INFORMATION	ON DISCLOSURE		APPLICANT Randy L. Hoffma	n at			
	STATE	VIENT		FILING DATE	n, et	GROUP		
(1	Jse several sheets if	necessary)		Herewith				
REFERENCE	DESIGNATION	U.S. PA	ATENT	F DOCUMENTS				
XAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE		NAME		Pages, Columns Relevant Passages		ear
6A			1					
6B								
6C			_					
6D								
6E								
6F								
6G								
6H						-		<u></u>
61								
6J								
6К								
	T			PATENT DOCUM	ENTS			Check i
61	DOCUMENT NUMBER	PUBLICATION - DATE		PATENT DOCUM AME OF PATENTEE OR APPLICANT	1	Pages/Columns/Line elevant Passages/Figu		Translatio
6L 6M		PUBLICATION		AME OF PATENTEE	1	Pages/Columns/Line		Translatio
		PUBLICATION		AME OF PATENTEE	1	Pages/Columns/Line		Translatio
6М		PUBLICATION		AME OF PATENTEE	1	Pages/Columns/Line		Translatio
6M		PUBLICATION		AME OF PATENTEE	1	Pages/Columns/Line		Translatio
6M 6N 6O	NUMBER	PUBLICATION DATE	N/	AME OF PATENTEE	Re	Pages/Columns/Line levant Passages/Figu		Check if Translatio attached
6M 6N 6O	OTHER REFE	PUBLICATION DATE RENCES (including three Terminal Fields)	ng Au	AME OF PATENTEE OR APPLICANT	Pertin	Pages/Columns/Line llevant Passages/Figure	annel" IEEE	Translatio
6M 6N 6O 6P	OTHER REFE	PUBLICATION DATE RENCES (including fine price of the content of t	ng Au	thor, Title, Date, F	Pertin Device	Pages/Columns/Line llevant Passages/Figurent Pages, etc.) e Using SrTiO3 Ch	annel" IEEE	Translatio
6M 6N 6O 6P	OTHER REFE Yoshida, A., "Transactions of Solid-State Electrons of Soli	PUBLICATION DATE ERENCES (including fine price of the pr	ng Au	thor, Title, Date, Fort Superconducting Interview, Vol. 5, No. 2, p.	Pertin Device pp. 28	Pages/Columns/Line elevant Passages/Figure eent Pages, etc.) e Using SrTiO3 Ch e92-2895 (June, 1	annel" IEEE 995).	Translatio

in the Co

Rev 10/03 (PTO1449)